

KUBOTA Corporation

EXECUTIVE ORDER U-R-025-0844 New Off-Road Compression-Ignition Engines

Pursuant to the authority vested in California Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-14-012;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY DISPLACEMENT (liters)		FUEL TYPE	USEFUL LIFE (hours)		
2019	KKBXL06.1AMD	6.124	Diesel	8000		
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION			
Recircul	c Direct Injection, Turboc ation, Charge Air Cooler e, Periodic Trap Oxidizer yst, Selective Catalytic R Ammonia Oxidation (r, Electronic Control r, Diesel Oxidation leduction – Urea,	Tractor			

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for non-methane hydrocarbon (NMHC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED		EXHAUST (g/kw-hr)				OPACITY (%)				
POWER CLASS	STANDARD CATEGORY	. =	NMHC	NOx	NMHC+NOx	СО	PM	ACCEL	LUG	PEAK
75 < kW < 130	Tier 4 Final	STD	0.19	0.40	N/A	5.0	0.02	N/A	N/A	N/A
	el.	CERT	0.02	0.17		0.02	0.002			

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this

_ day of December 2018.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

Engine Model Summary Form

Attachment page 1 of 1

EO#U-R-0>5-0844 Date: 10/29/2018

Manufacturer:

KUBOTA Corporation

Engine category:

Nonroad CI

EPA Engine Family: KKBXL06.1AMD

Mfr Family Name:

N/A

2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate:	5.Fuel Rate:				
A CONTRACTOR OF THE PROPERTY O	(SAE GIUSS)	mm/stroke @ peak HP (for diesel only)	(lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
V6108-CR-TI-EV	173.0@2200	135.5	66.6	524.4@1200	162.0	43.5	EM, DFI, TC, EGR, CAC, ECM, PTOX, DOC, SCR, AMO
V6108-CR-TI-EV	168.2@2200	131.8	64.8	508.9@1200	157.0	42.1	EM, DFI, TC, EGR, CAC, ECM, PTOX, DOC, SCR, AMO
V6108-CR-TI-EV	148.3@2200	116.7	57.4	447.7@1200	137.0	36.8	EM, DFI, TC, EGR, CAC, ECM, PTOX, DOC, SCR, AMO
V6108-CR-TI-EV	COLOR DESCRIBIO DEL SERVICIO DE COMPOSITORIO D	111.5	54.8	432.3@1500	136.0	45.6	EM, DFI, TC, EGR, CAC, ECM, PTOX, DOC, SCR, AMO
V6108-CR-TI-EV	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	104.5	51.4	401.3@1500	125.0	41.9	EM, DFI, TC, EGR, CAC, ECM, PTOX, DOC, SCR, AMO
V6108-CR-TI-EV	AN ADDRESS PRODUCT ACCRESS TAMBLE PARK BY AN ADDRESS OF THE PARK BY AND ADDRESS OF THE PARK BY ADDRESS OF THE PARK BY AND ADDRESS OF THE PARK BY A	124.8	53.0	524.4@1500	153.0	51.3	EM, DFI, TC, EGR, CAC, ECM, PTOX, DOC, SCR, AMO
V6108-CR-TI-EV	A LANGE OF THE PARTY OF THE PAR	116.7	49.6	508.2@1500	148.4	49.8	EM, DFI, TC, EGR, CAC, ECM, PTOX, DOC, SCR, AMO
and the second section of the sectio	CHECKER SHEET AND ADDRESS OF THE PROPERTY OF T	105.9	45.0	442.5@1500	129.0	43.3	EM, DFI, TC, EGR, CAC, ECM, PTOX, DOC, SCR, AMO
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11/1/1/1	V6108-CR-TI-EV V6108-CR-TI-EV V6108-CR-TI-EV	V6108-CR-TI-EV 141.5@2200 V6108-CR-TI-EV 131.6@2200 V6108-CR-TI-EV 173.0@1900 V6108-CR-TI-EV 167.6@1900	V6108-CR-TI-EV 141.5@2200 111.5 V6108-CR-TI-EV 131.6@2200 104.5 V6108-CR-TI-EV 173.0@1900 124.8 V6108-CR-TI-EV 167.6@1900 116.7	V6108-CR-TI-EV 141.5@2200 111.5 54.8 V6108-CR-TI-EV 131.6@2200 104.5 51.4 V6108-CR-TI-EV 173.0@1900 124.8 53.0 V6108-CR-TI-EV 167.6@1900 116.7 49.6	V6108-CR-TI-EV 141.5@2200 111.5 54.8 432.3@1500 V6108-CR-TI-EV 131.6@2200 104.5 51.4 401.3@1500 V6108-CR-TI-EV 173.0@1900 124.8 53.0 524.4@1500 V6108-CR-TI-EV 167.6@1900 116.7 49.6 508.2@1500	V6108-CR-TI-EV 141.5@2200 111.5 54.8 432.3@1500 136.0 V6108-CR-TI-EV 131.6@2200 104.5 51.4 401.3@1500 125.0 V6108-CR-TI-EV 173.0@1900 124.8 53.0 524.4@1500 153.0 V6108-CR-TI-EV 167.6@1900 116.7 49.6 508.2@1500 148.4	V6108-CR-TI-EV 141.5@2200 111.5 54.8 432.3@1500 136.0 45.6 V6108-CR-TI-EV 131.6@2200 104.5 51.4 401.3@1500 125.0 41.9 V6108-CR-TI-EV 173.0@1900 124.8 53.0 524.4@1500 153.0 51.3 V6108-CR-TI-EV 167.6@1900 116.7 49.6 508.2@1500 148.4 49.8